



Gottlieb™

NEW YORK! NEW YORK!

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Engineered by
Sigma Enterprises, Inc.

OPERATION and MAINTENANCE Manual

Gottlieb™
AMUSEMENT GAMES

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A Columbia Pictures Industries Company 

NEW YORK, N.Y.

INSTRUCTION MANUAL

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I. GAME PLAY

Flying Saucer changes color with each direct hit. Saucer must be hit 7 times to score.

II. POWER-UP AND OPERATION

An On-Off switch is located on the cabinet top in the right rear corner. In addition, a Pull-to-Cheat Interlock switch is mounted on the cabinet in a manner such that if the back door is removed, the game will shut off. The Switch Plunger can be pulled out to restore power while working on the game.

Plug the AC power cord into a grounded outlet of proper voltage.

Check the 3 sets of D.I.P. Option switches on the Control Board for proper setting. (See chart in Section IV of this manual.)

NOTE: Option switches are read only during normal power-up. For this reason, always turn game off when adjusting the Option switches.

When power is applied the Monitor will power up with the Attract Mode picture on it. Sometimes the Monitor may have a random dot pattern on power-up. This is normal, and the screen will reset in several seconds.

Insert coins into each Coin Chute. Credits will be displayed at the bottom right corner of the screen.

Start a game using the 1 or 2 player start buttons located on the Control Panel.

Adjust desired background music volume using the pot on the Sound Board. Adjust volume of all sounds using VR1 on the Control Board. (Located near connector CN1). The 3 pots located near connector CN5 adjust the relative values of the primary colors, and should not need adjustment unless the Monitor has been serviced.

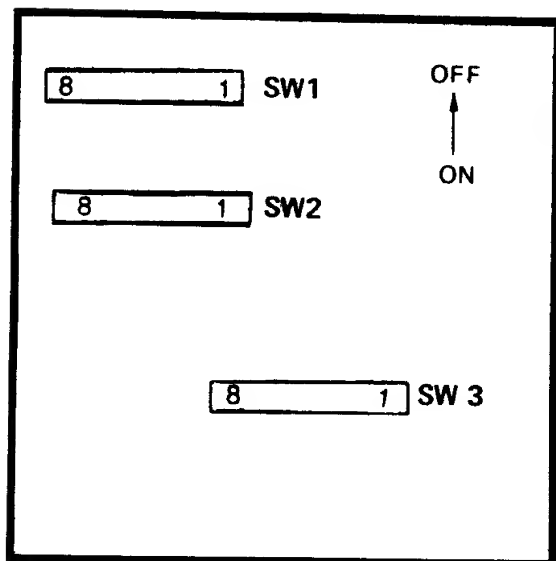
Player 1 score is displayed at the top left of the Monitor, and Player 2 score is at the top right. At the end of the game, the players rankings (down to 50th) are displayed, then the game returns to the Attract Mode.

III. BOOKKEEPING AND SERVICE SWITCHES

The RED button located on the inside of the front door adds credits without affecting the coin count in bookkeeping. This enables the game to be played or serviced without changing the bookkeeping. The WHITE button, also located on the inside of the door, displays the coin count on the Monitor when pressed. The coin count is cumulative and non-resetable.

IV. OPTION SWITCH SETTINGS

CAUTION: Switches are recognized only during normal power-up. Turn power off and on after changing switch setting.



SWITCH PAK 1

Number of Bombs from UFO
(Screen 3 or higher)

SW1	SW2	
OFF	OFF	9
ON	OFF	12
OFF	ON	3
ON	ON	6

Number of bombs from UFO
(Screen 1 or 2)

SW3		
OFF		6
ON		9

Switches 4-5-6-7 have no function

Relative Volume of Voice

SW8		
OFF	HIGH	
ON	LOW	

SWITCH PAK 2

Coin, Credits

1 Coin, 1 Credit

1 Coin, 2 Credits

2 Coins, 1 Credit

Free Play

SW1	SW2	
OFF	OFF	
OFF	ON	
ON	OFF	
ON	ON	

Switches 3 and 4 have no function.

Replay Score

No Replays

5,000 Points

10,000 Points

15,000 Points

SW5	SW6	
OFF	OFF	
ON	OFF	
ON	ON	
OFF	ON	

Extra Missile Base Score

5,000 Points

3,000 Points

SW7		
OFF		
ON		

Extra Missile Base Mode

Extra Base at SW7 Score

No Extra Base

SW8		
OFF		
ON		

SWITCH PAK 3

Picture Direction—Both Players
Standard
Up-Side Down

SW1
ON
OFF

Same Mode
Upright Cabinet
Cocktail Cabinet

SW2
ON
OFF

Vertical location of displayed picture

SW3 SW4 SW5

Horizontal location of displayed picture

SW6 SW7 SW8

+3

ON ON OFF

+2

OFF ON OFF

+1

ON OFF OFF

Neutral

OFF OFF OFF

−1

ON ON ON

−2

OFF ON ON

−3

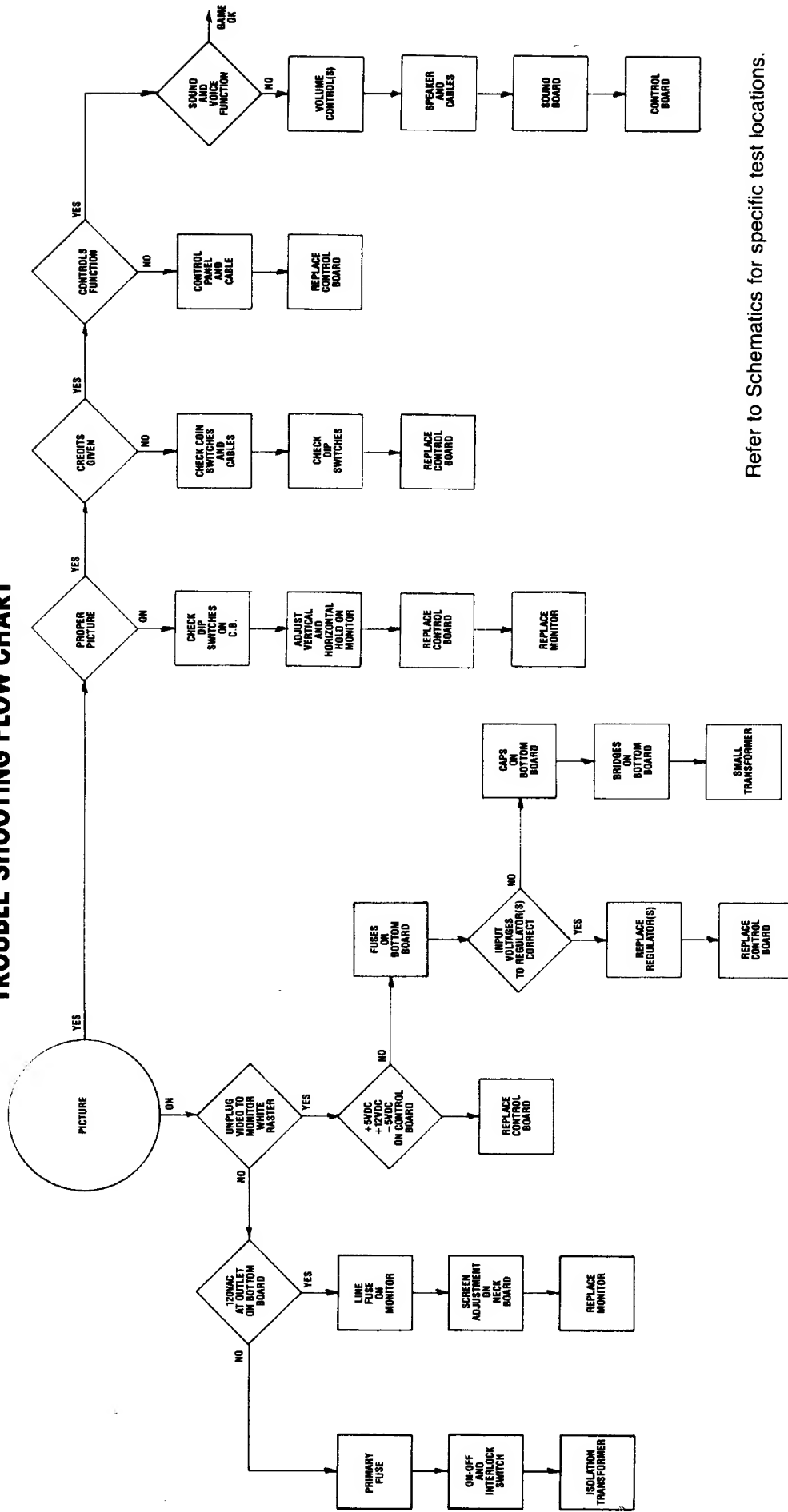
ON OFF ON

NOTE: Switches 3 thru 8 should not need adjustment unless the Monitor is replaced by one manufactured by someone other than the original installed in the game.

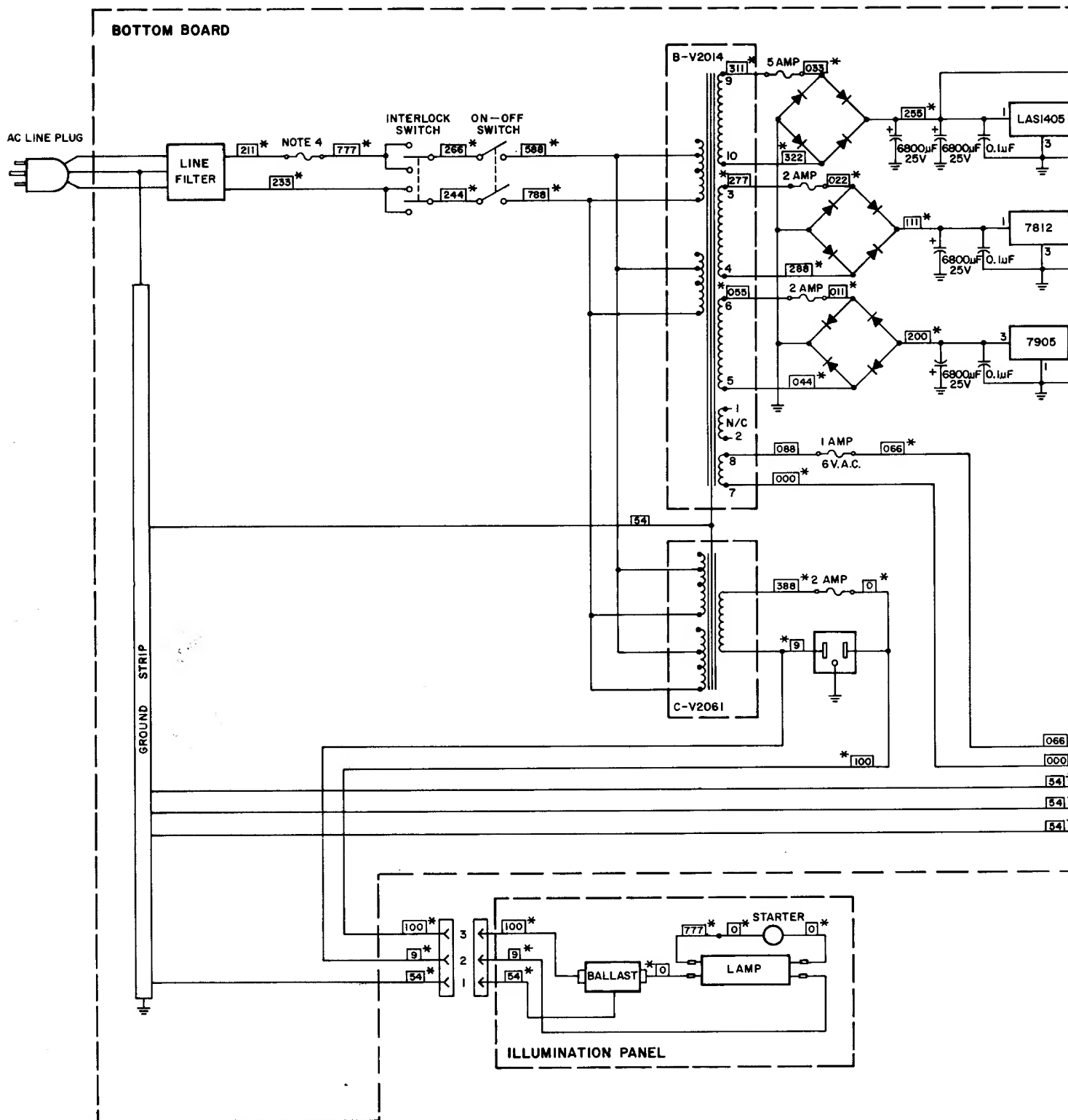
V. TROUBLESHOOTING:

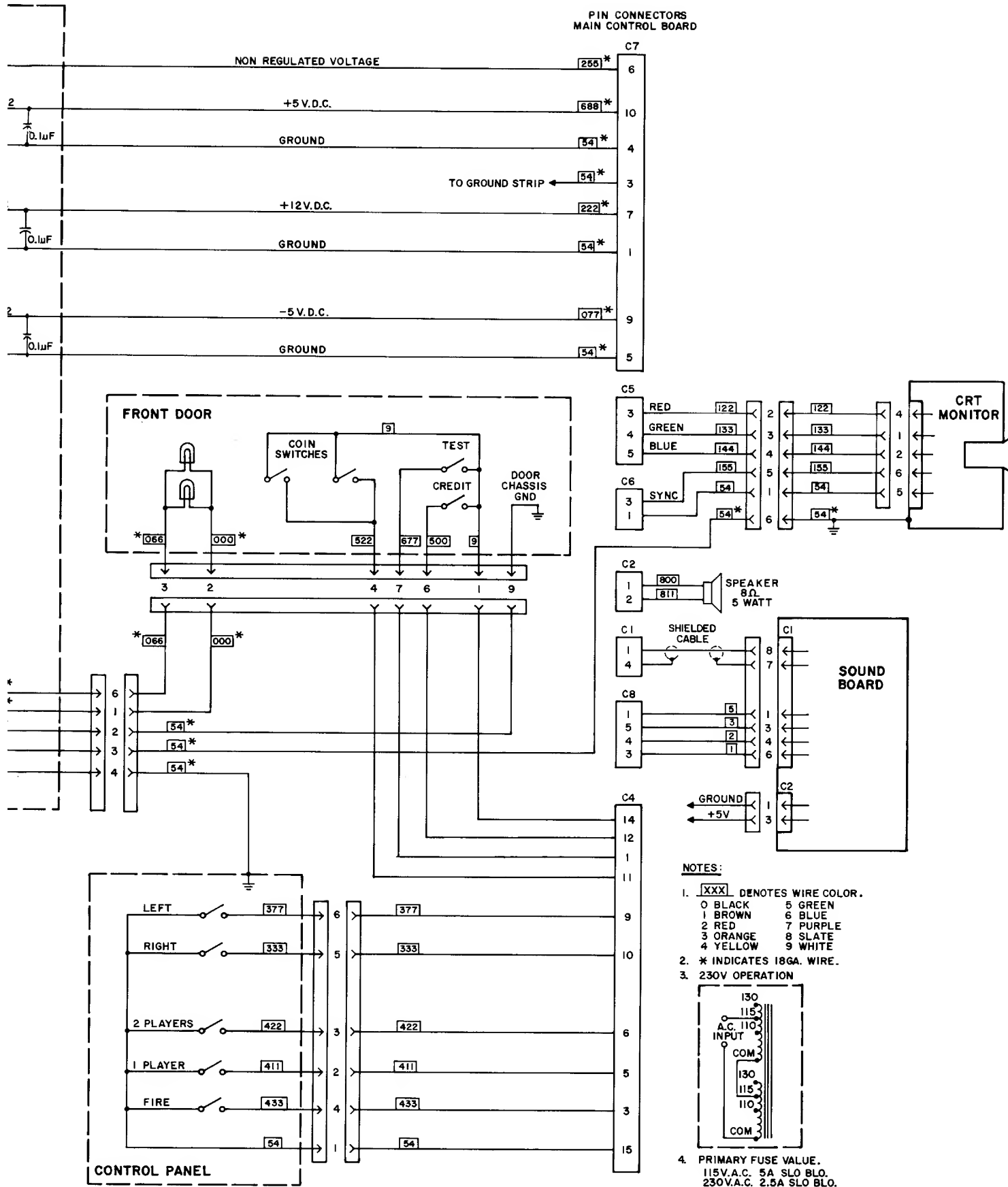
Most electronic troubleshooting will consist of isolating a faulty assembly and replacing that assembly on location.

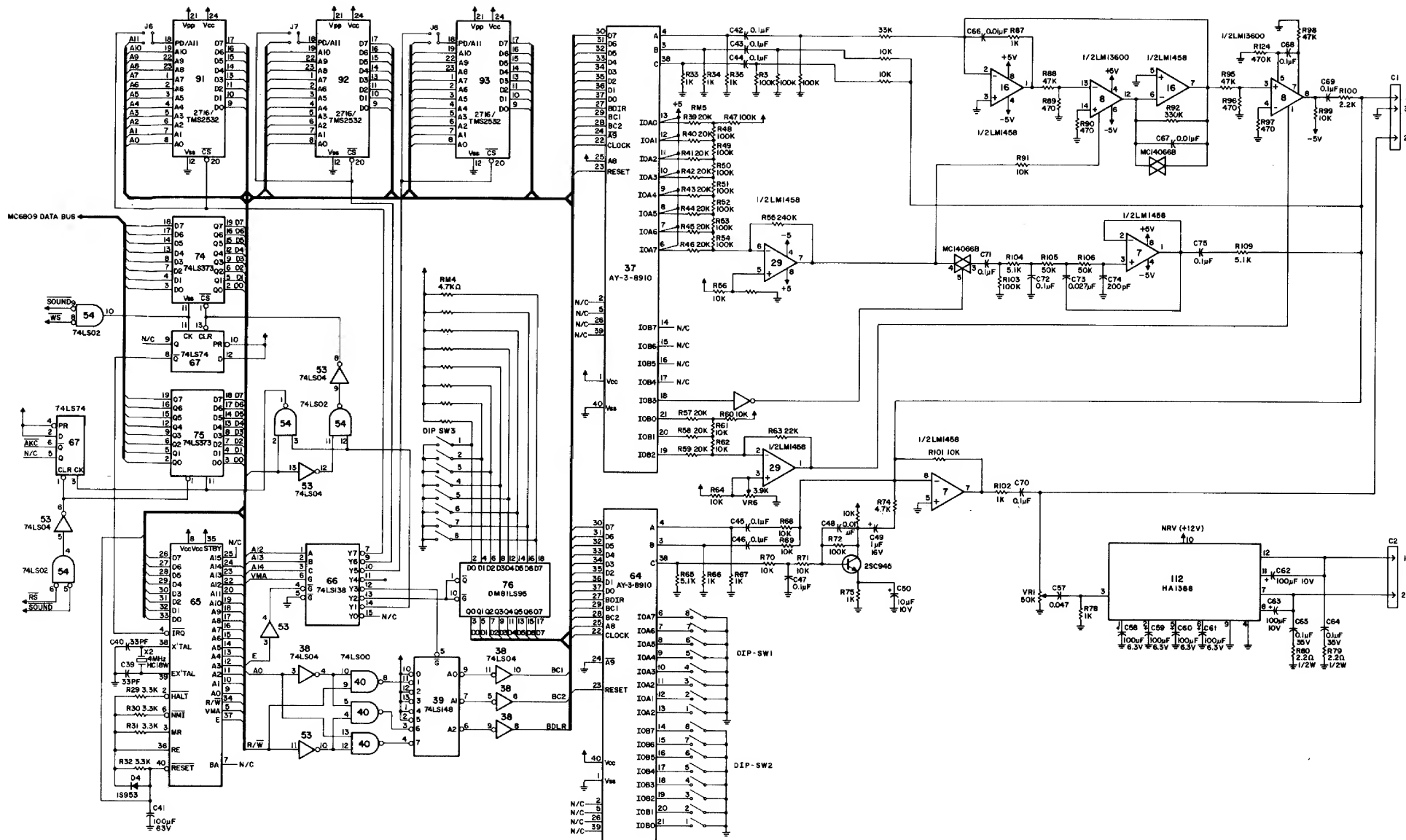
TROUBLE SHOOTING FLOW CHART

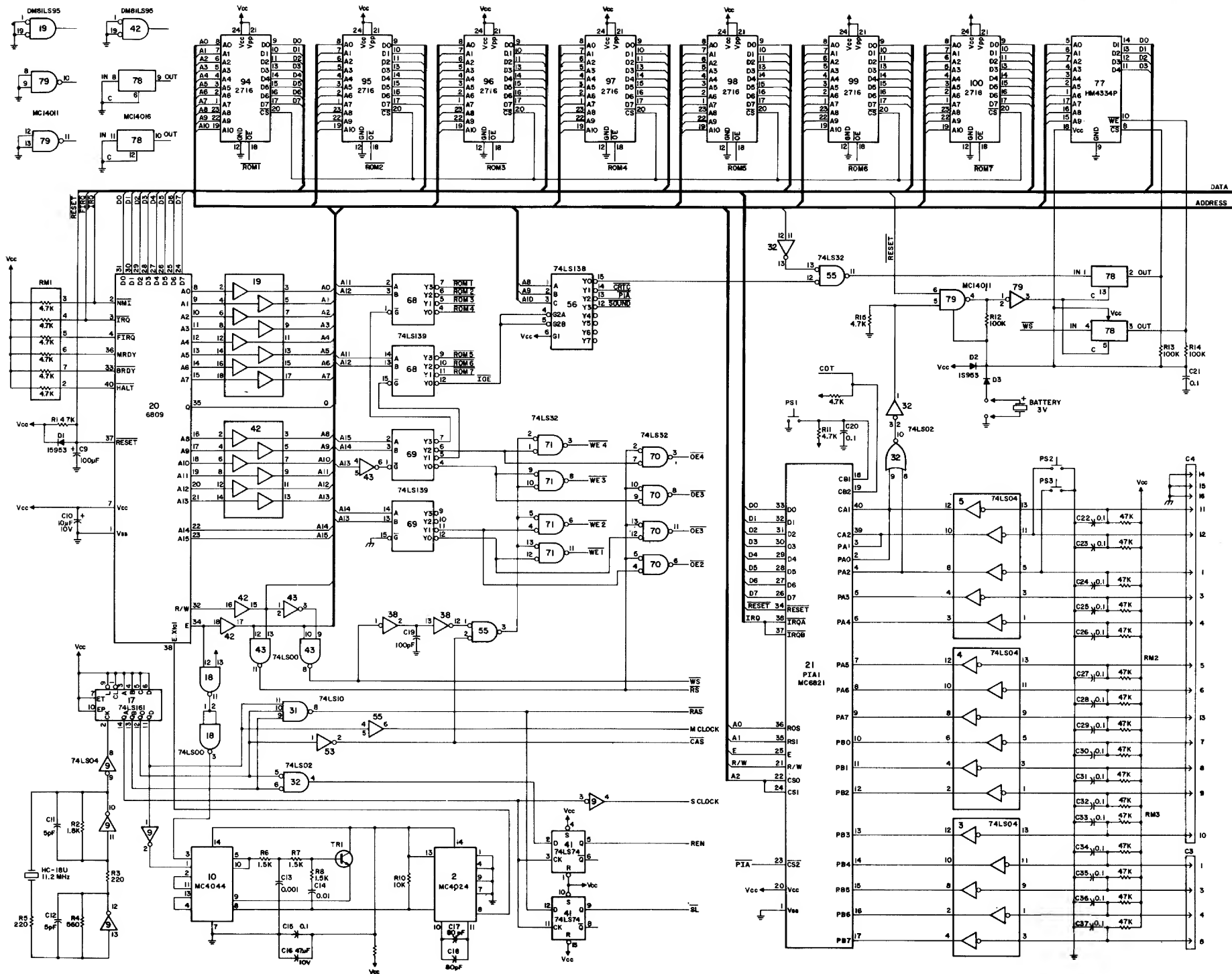


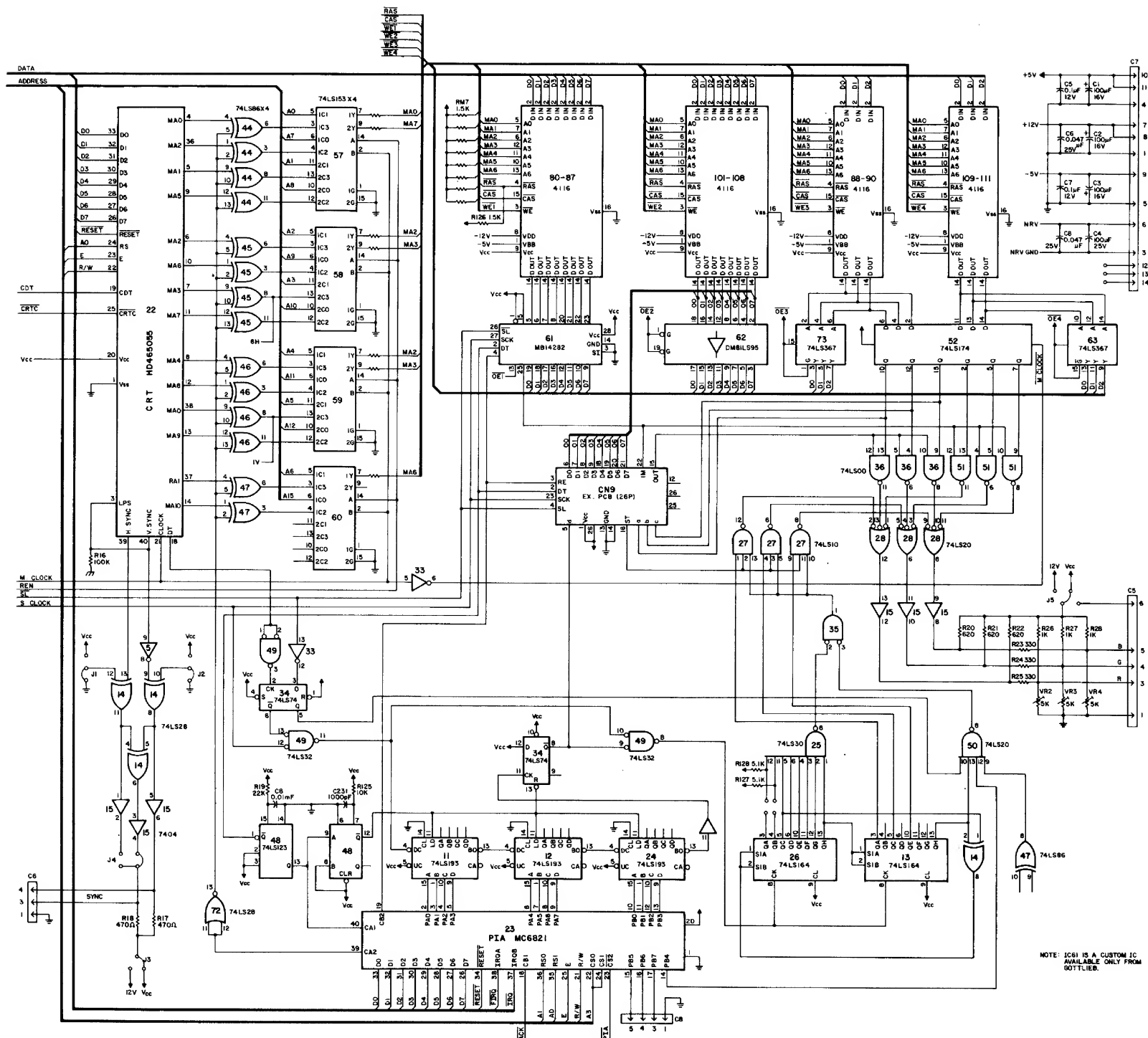
Refer to Schematics for specific test locations.





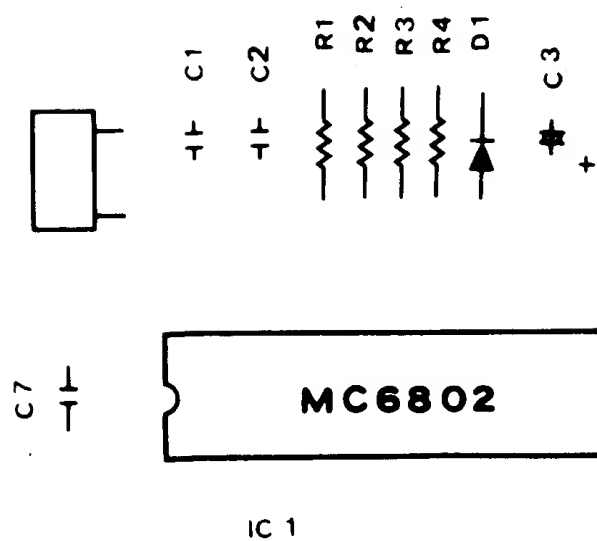






NOTE: IC61 IS A CUSTOM IC
AVAILABLE ONLY FROM
GOTTlieb.

0088B

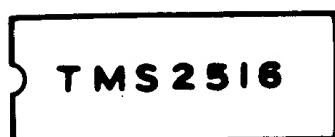


C7



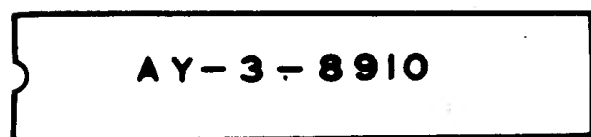
IC 1

C10

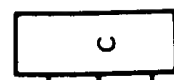
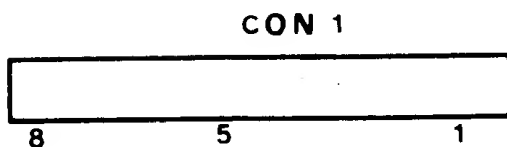
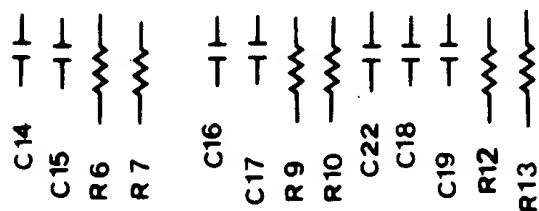
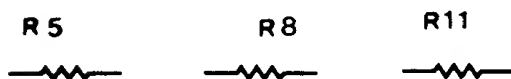


IC 2

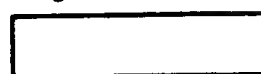
C13



IC 3



3 CON 2 1



+

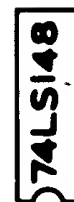
+

+

C5



C8



C11



IC 6

IC 5

IC 4

C6



C9



C12



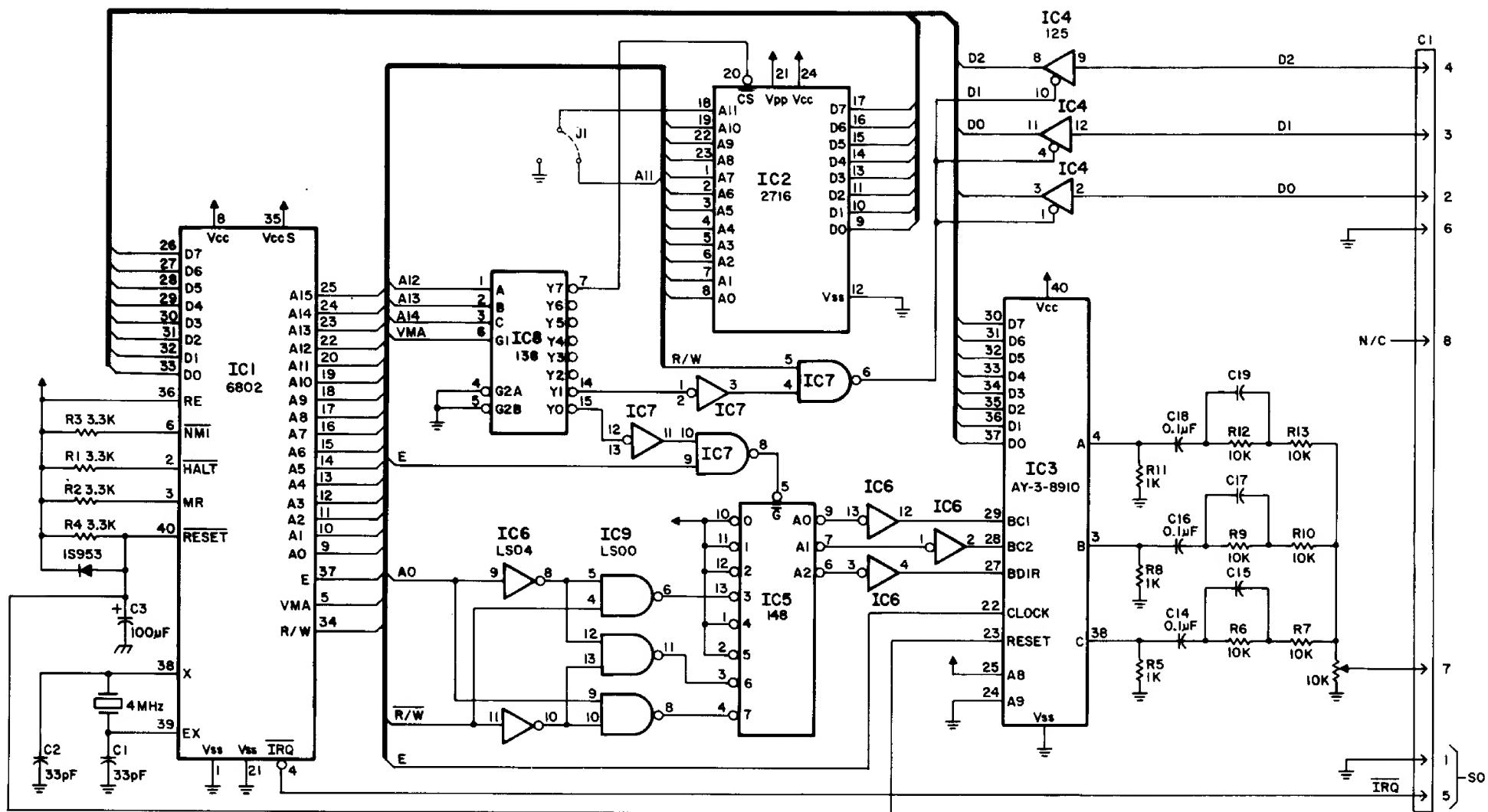
IC 9

IC 8

IC 7

C4







7425



IC5



74LS157



IC2

00898



CN1



74LS74



IC6



74LS157



IC3



74LS00



IC7



74LS166



IC4



74LS02



IC1

